MODEL 770

TRANSMISSION JACK

1 -1/2 TON CAPACITY

USER'S MANUAL

Jackco Transnational Inc. © 2010
South El Monte, CA
888-452-2526 www.jackco.com

FOR YOUR SAFETY

Read all instructions, warnings and cautions carefully. Follow all safety precautions to avoid personal injury or property damage during system operation. Jackco cannot be responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect product and/or system operation. Contact Jackco when in doubt as to the safety precautions and operations.

Failure to comply with the following cautions and warnings could cause equipment damage and personal injury.

⚠ WARNING

- This jack is designed for transmission and installation of automobile and light truck component parts. The instructions must be carried out conscientiously in order to operate the jack safely and properly.
- Stay clear of loads supported by hydraulics. A cylinder, when used as a load lifting device, should never be used as a load holding device. After the load had been raised or lowered, it must always be blocked mechanically.
- Do not exceed equipment rating never attempt to lift a load weighing more than the capacity of the cylinder. Overloading causes equipment failure and possible personal injury.
- BE SURE SETUP IS STABLE BEFORE LIFTING LOAD.
- Avoid situations where loads are not directly centered. Off-center loads produce considerable strain on cylinders and plungers. In addition, the load may slip or fall, causing potentially dangerous results.
- Immediately replace worn or damaged parts genuine JACKCO parts. Standard grade parts will break causing personal injury and property damage. JACKCO parts are designed to fit properly and withstand high loads.

⚠ DANGER

- To avoid personal injury keep hands and feet away from work piece during operation.
- NEVER set the relief valve to a higher pressure than the maximum rated pressure of the pump. Higher settings may result in equipment damage and/or personal injury. Do no remove relief valve.

⚠ CAUTION

- Keep hydraulic equipment away from flames and heat. Excessive heat will soften packing and seals, resulting in fluid leaks. Heat also weakens hose materials and packings. For optimum performance do not expose equipment to temperatures of 150°F or higher. Protect hoses and cylinders from weld spatter.
- Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact JACKCO Inc. To protect your warranty, use only JACKCO hydraulic oil.

SPECIFICATIONS:

LIFTING CAPACITY	MIN. HEIGHT	MAX. HEIGHT	N.W	G.W.	PACKAGE SIZE
1.5 Ton	220mm / 8.6"	943mm / 37"	133Kgs / 293 lb	153Kgs / 337 lb	115 x 72 x 40 cm / 45" x 28.3" x 15.7"

OPERATING INSTRUCTIONS:

1. Position the saddle under the transmission:
   The saddle may be tilted forward and back or side to side to receive the transmission.

2. Close the release valve. Operate the pump handle to raise the saddle and align the saddle with the transmission.

3. Remove the transmission according to the instructions in the vehicle service manual.

4. Secure the transmission to the saddle.

5. Lower the transmission by slowly opening the release valve. The release valve also regulates how fast the saddle is lowered.

MAINTENANCE

IMPORTANT : Dirt is the greatest single cause of failure in hydraulic units. Keep the jack clean and well lubricated to prevent dirt/debris from entering the system. If the jack has been exposed to rain, snow, sand, or grit, it must be cleaned before it is used.

1. Store the jack in a well-protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.

2. Regularly lubricate the moving parts.

3. To check the oil level, place the jack on level ground lower the lift arm completely. Remove the fill plug. The oil level should be within 3/8” of the filler plug hole. Do not overfill. If necessary, add approved anti-wear hydraulic jack oil, and install the filler plug again.

IMPORTANT : The use of alcohol, hydraulic brake fluid or detergent motor oil could damage the seals and result in jack failure.

4. Inspect the jack before each use. Take corrective action of the following problems are found:

a . Cracked or damaged housing

b . Excessive wear, bending, or other damage

c . Leaking hydraulic fluid

d . Scored or damaged piston rod

e . Malfunctioning swivel heads or adjusting screws

f . Loose hardware

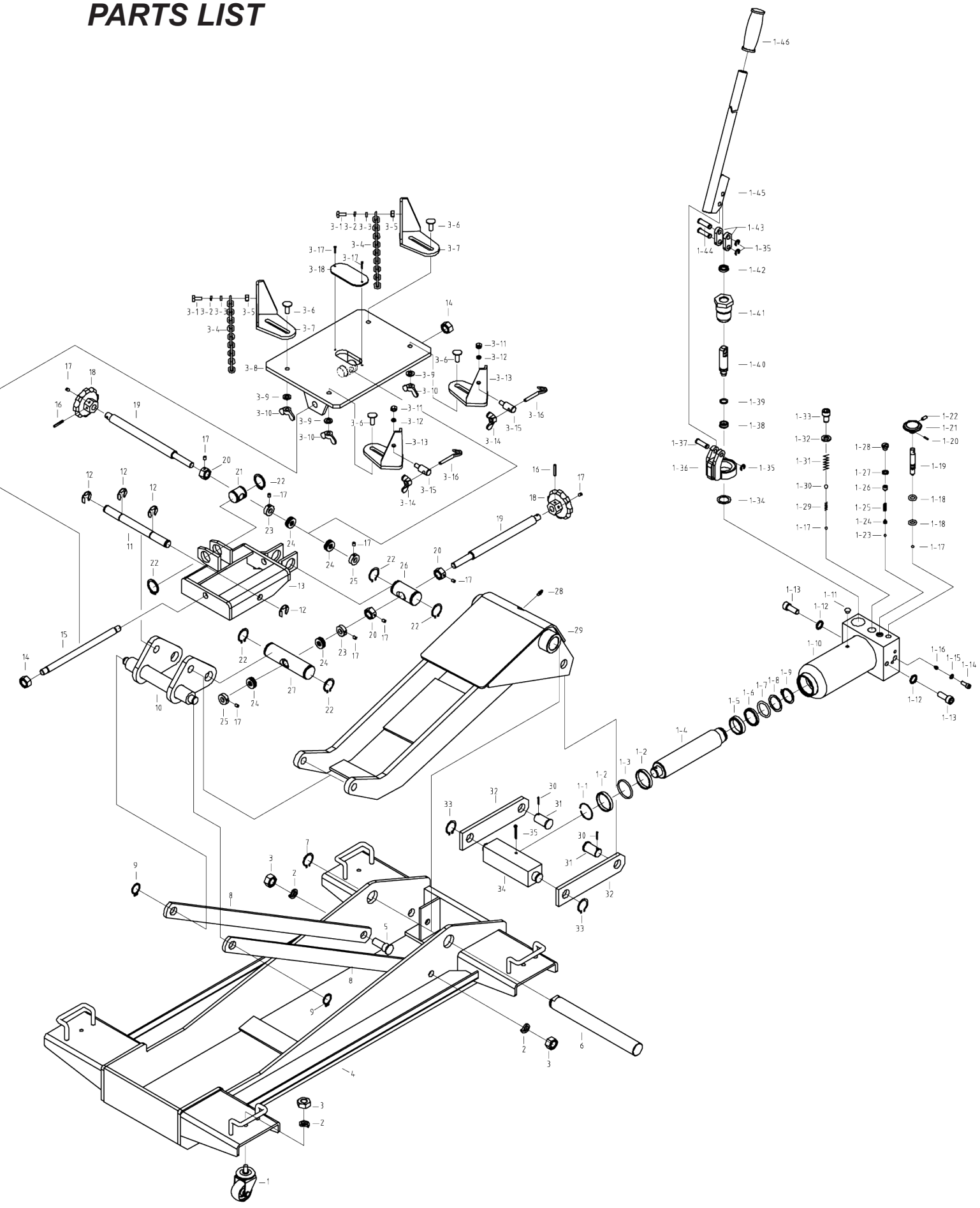
g . Modified or altered equipment

TROUBLESHOOTING

Caution: To prevent personal injury, all inspection, maintenance, and repair procedures must be performed when the jack is free of load.

Trouble	Cause	Solution
Jack dose not lift at all	1. No hydraulic oil. 2. Release valve opened. 3. Defective suction valve and delivery vavle. 4. Defective packing.	1. Fill hydraulic oil. 2. Close release valve. 3. Clean dust or sludge. 4. Replace packing.
Jack lifts only partially	1. Lack of hydraulic oil. 2. Excess of hydraulic oil.	1. Fill hydraulic oil. 2. Drain out excess hydraulic oil.
Jack lifts load, but doesn't hold	1. Improper contact of suction valve, delivery valve & by-pass valve.	1. Clean and adjust all valves.
	2. Worn out piston packing.	2. Replace piston packing.
Jack does not lower	1. Release valve blocked by foreign material.	1. Clean release valve.
Poor lifting	1. Defective pump packings and/or incorrect valving.	1. Clean release valve, replace packings and hydraulic oil.

PARTS LIST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Part No.	Description	Q'ty	Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Caster Assy.	4	34	Rod Link	1	1-32	Copper Washer	1
2	Washer	6	35	Pin	1	1-33	Screw	1
3	Nut	6	1-1	Washer	1	1-34	Copper Washer	1
4	Frame Board Assy.	1	1-2	Washer	2	1-35	Washer	3
5	Bolt	2	1-3	O-ring	1	1-36	Bracket	1
6	Shaft	1	1-4	Piston Rod	1	1-37	Pin	1
7	Washer	1	1-5	Piston Ring	1	1-38	Y-ring	1
8	Rod Link	2	1-6	Sealing Washer	1	1-39	O-ring	1
9	Washer	2	1-7	O-ring	1	1-40	Cylinder Pump	1
10	Saddle Seat	1	1-8	Washer	1	1-41	Pump Cylinder	1
11	Shaft	1	1-9	Washer	1	1-42	Dustproof Plug	1
12	Washer	4	1-10	Body	1	1-43	Washer	2
13	Bracket	1	1-11	Oil Filler Plug	1	1-44	Pin	2
14	Nut	2	1-12	Washer	2	1-45	Handle	1
15	Shaft	1	1-13	Bolt	2	1-46	Handle Sleeve	1
16	Pin	2	1-14	Bolt	1	3-1	Bolt	2
17	Bolt	9	1-15	Copper Washer	1	3-2	Washer	2
18	Handwheel	2	1-16	Valve	1	3-3	Washer	2
19	Screw	2	1-17	Steel Ball Φ6	2	3-4	Chain	2
20	Nut	3	1-18	O-ring	2	3-5	Nut	2
21	Shaft	1	1-19	Release Valve Rod	1	3-6	Bolt	4
22	Washer	6	1-20	Pin	1	3-7	Bracket	2
23	Nut	2	1-21	Release Nob	1	3-8	Bracket	1
24	Bearing	4	1-22	Screw	1	3-9	Washer	4
25	Nut	2	1-23	Steel Ball Φ4	1	3-10	Nut	4
26	Shaft	1	1-24	Ball Seat	1	3-11	Nut	2
27	Shaft	1	1-25	Spring	1	3-12	Washer	2
28	Grease Fitting	1	1-26	Screw	1	3-13	Bracket	2
29	Lift Arm Assy.	1	1-27	Sealing Washer	1	3-14	Nut	2
30	Pin	2	1-28	Screw	1	3-15	Bolt	2
31	Shaft	2	1-29	Spring	1	3-16	Hook	2
32	Rod Link	2	1-30	Steel Ball Φ9	1	3-17	Bolt	2
32	Washer	2	1-31	Spring	1	3-18	Board	1

LIMITED ONE YEAR WARRANTY

Jackco Transnational Inc. warrants all Jackco equipment and tools to the original purchaser against any manufacturing defect in material or workmanship for a period of one (1) year from the original date of purchase. If the defective equipment or tool is determined to be covered under this warranty, it shall be repaired or replaced at manufacturer's discretion without charge, provided that the equipment or tool must be returned with proof of purchase to the dealer and freight prepaid, if returned to the manufacturer. This warranty shall not apply to damage due to accident, negligent use, and lack of maintenance, abuse or applications other than the specific function the equipment or tool is designed for.

No other warranties, expressed or implied, including those of merchantability or fitness for particular purpose shall be applicable to Jackco except as specifically stated herein. In no event shall Jackco be liable to any party for any special, direct, indirect, consequential, punitive damage of any nature caused by the sale or use of the equipment or tool.

Note: This warranty gives the original purchaser specific legal rights which may very from state to state.

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